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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Nygren et al.
Serial No.: 09/751,038
Filing Date: December 29, 2000
Title: SYSTEM AND METHOD FOR REPRODUCING A VIDEO SESSION USING ACCELERATED FRAME RECORDING

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" under 37 C.F.R. § 1.10 on the date indicated below and is addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

Name

10-4-01
Date of Signature

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Honorable Assistant Commissioner
for Patents
Washington, D.C. 20231

Dear Sir:

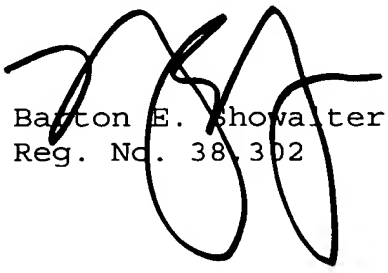
LETTER TO THE OFFICIAL DRAFTSPERSON

Enclosed for review and approval is FIGURE 8 for inclusion in the above-identified patent application. Applicants have also included a full set of figures for this application with updated sheet numbers. Applicants respectfully submit that no new matter has been entered and that FIGURE 8 is fully supported by the application filed on December 29, 2000. Accordingly, Applicants respectfully request that the addition of FIGURE 8 to the application be approved.

The Commissioner is hereby authorized to charge any fees or credit any overpayments to Deposit Account No. 02-0384 of Baker Botts L.L.P.

Respectfully submitted,

BAKER BOTTS L.L.P.
Attorneys for Applicants



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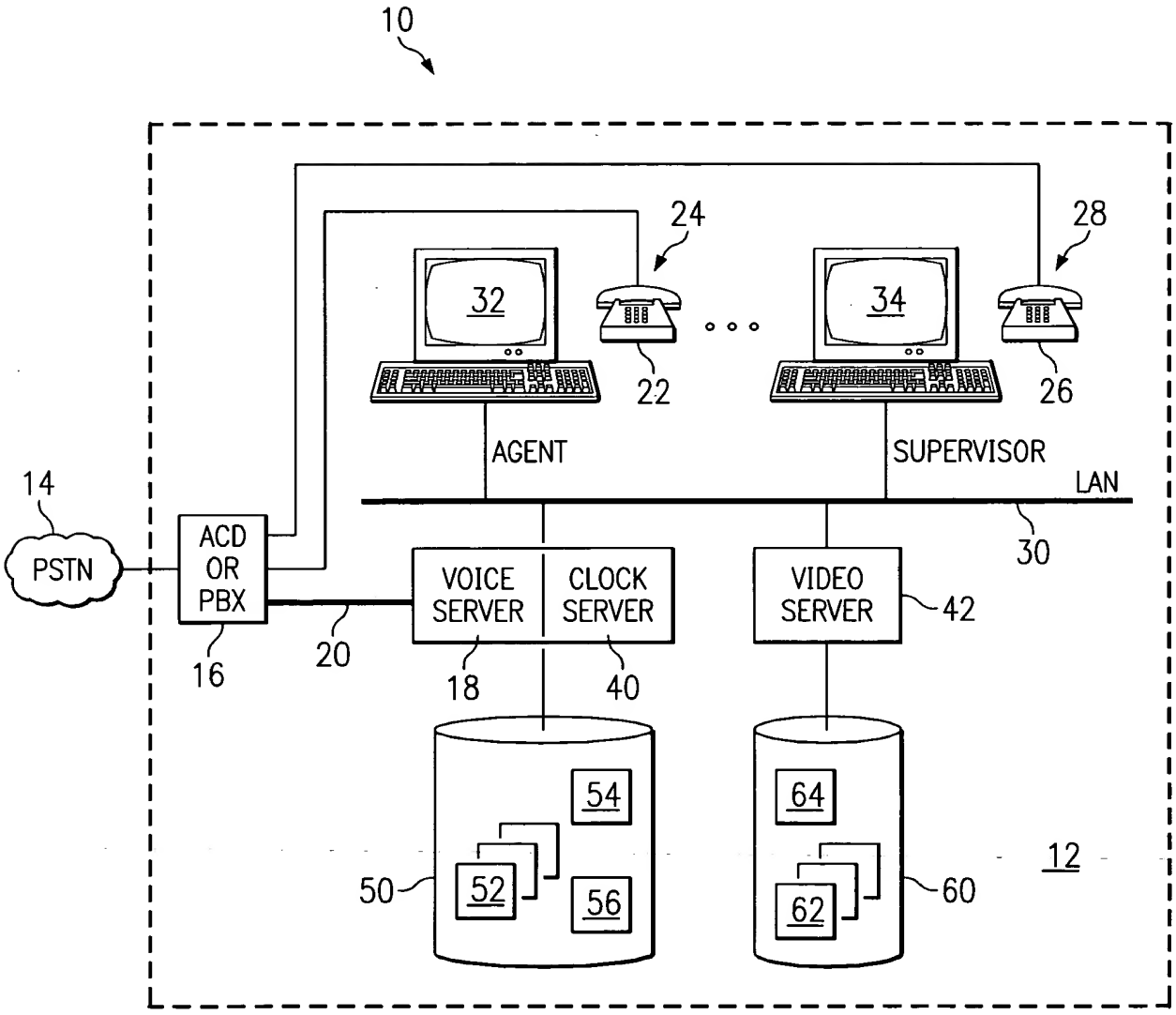
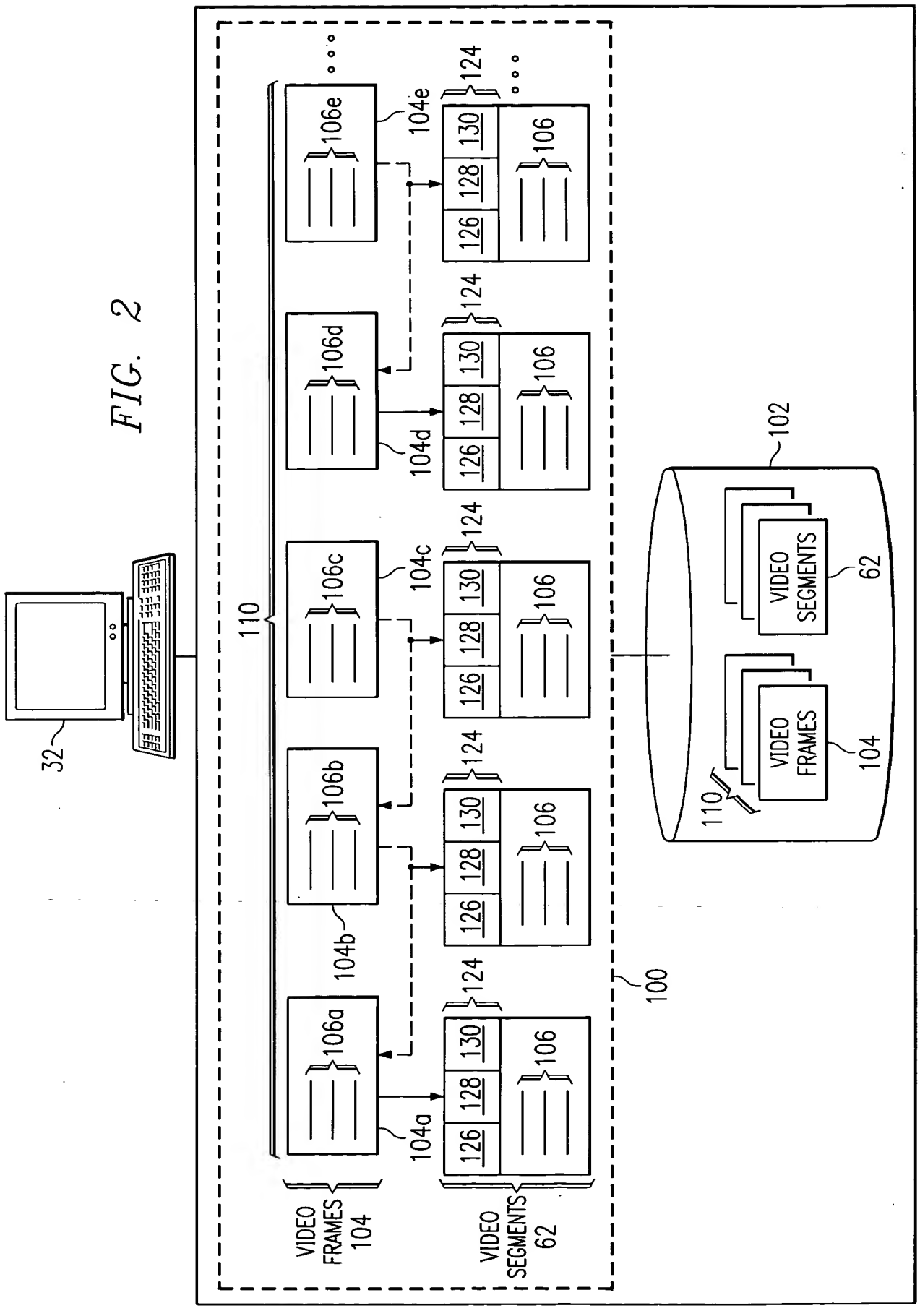

10
24
28
32
34
22
26
AGENT
SUPERVISOR
LAN
14
PSTN
ACD
OR
PBX
16
20
VOICE
SERVER
CLOCK
SERVER
18
40
VIDEO
SERVER
42
30
54
52
56
50
64
62
60
12

FIG. 1

FIG. 2


32
110
106a
106b
106c
106d
106e
104a
104b
104c
104d
104e
124
126
128
130
106
VIDEO FRAMES 104
VIDEO SEGMENTS 62
100
102
VIDEO SEGMENTS
62
VIDEO FRAMES
104
110

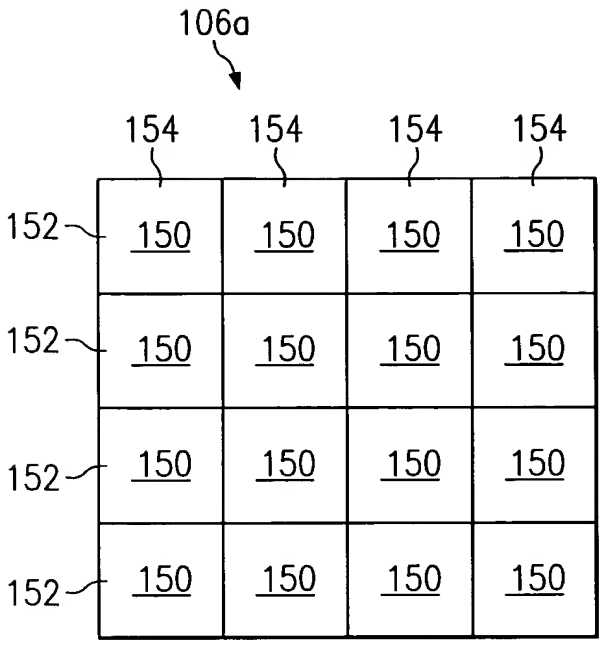


FIG. 3A

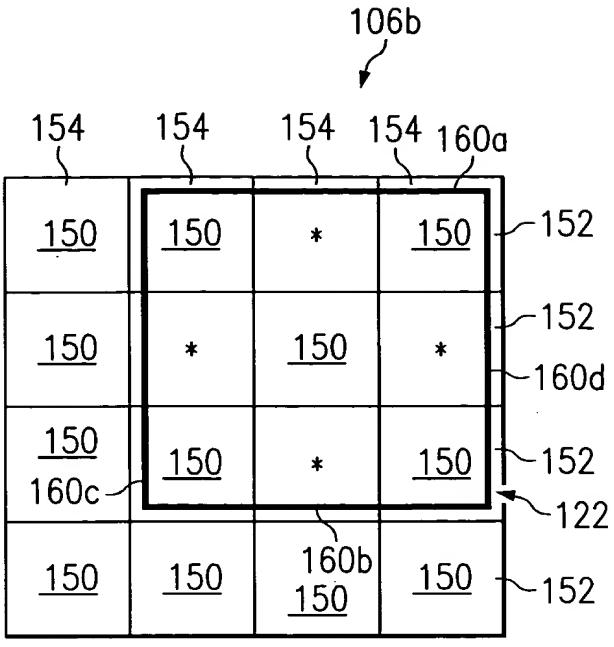


FIG. 3B

64

200 SESSION ID	126 SEGMENT TYPE	130 OFFSET	128 SEGMENT ID	202 PATH
5	VOICE	50	12	f:\voice\5010197.dat
5	VOICE (KEY FRAME)	100	14	video5@server
5	VOICE	100	15	http:\\voiceann5.cti
5	VIDEO (SUB-FRAME)	25	2	video.bigco.1324
3	VIDEO (SUB-FRAME)	300	9	c:\video\3.dat
3	VOICE	325	8	c:\voice\3.dat
⋮	⋮	⋮	⋮	⋮

FIG. 4

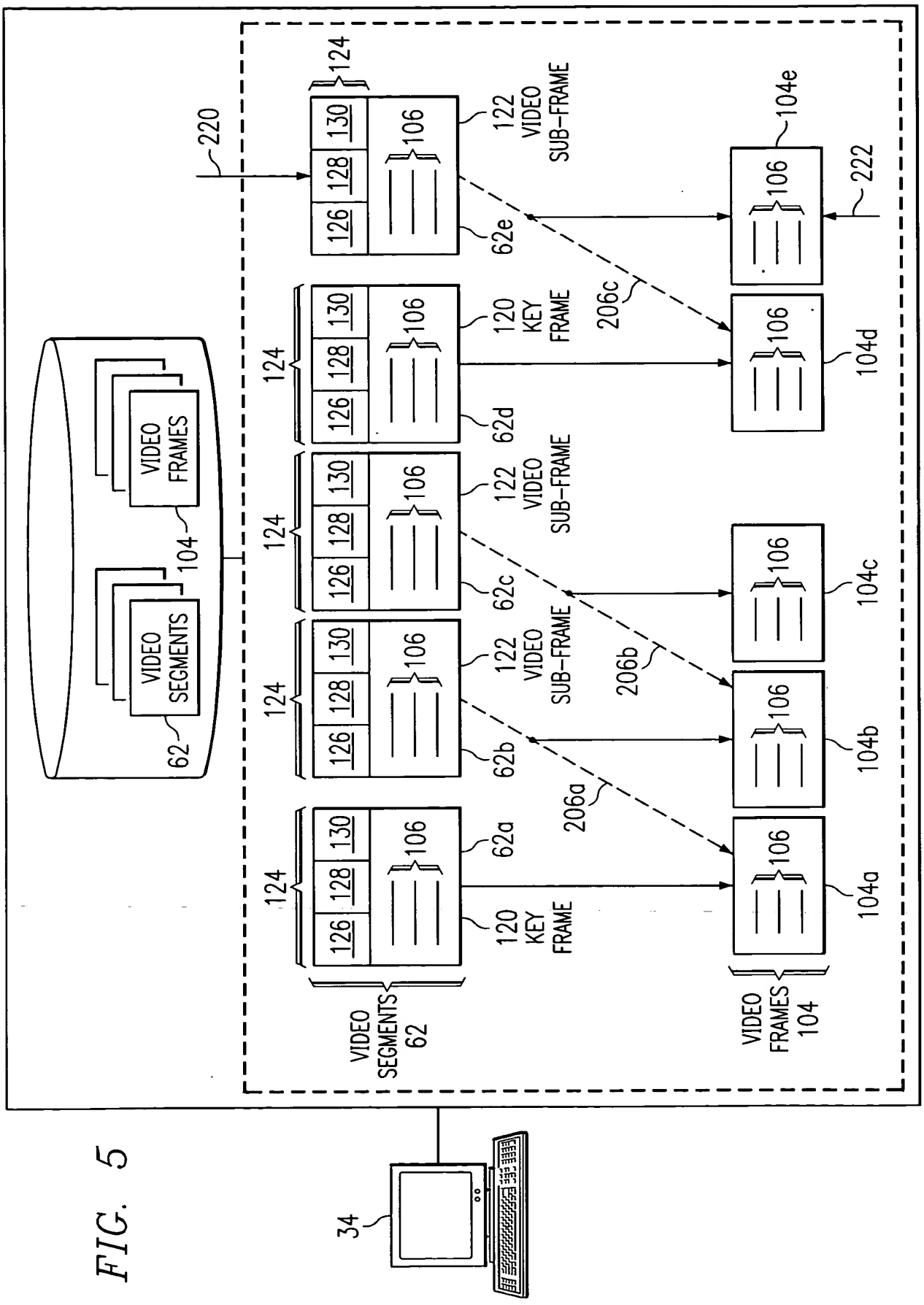

220
VIDEO SEGMENTS
62
VIDEO FRAMES
104
124
126
128
130
106
120 KEY FRAME
122 VIDEO SUB-FRAME
62a
62b
62c
62d
62e
206a
206b
206c
104a
104b
104c
104d
104e
222
34

FIG. 5

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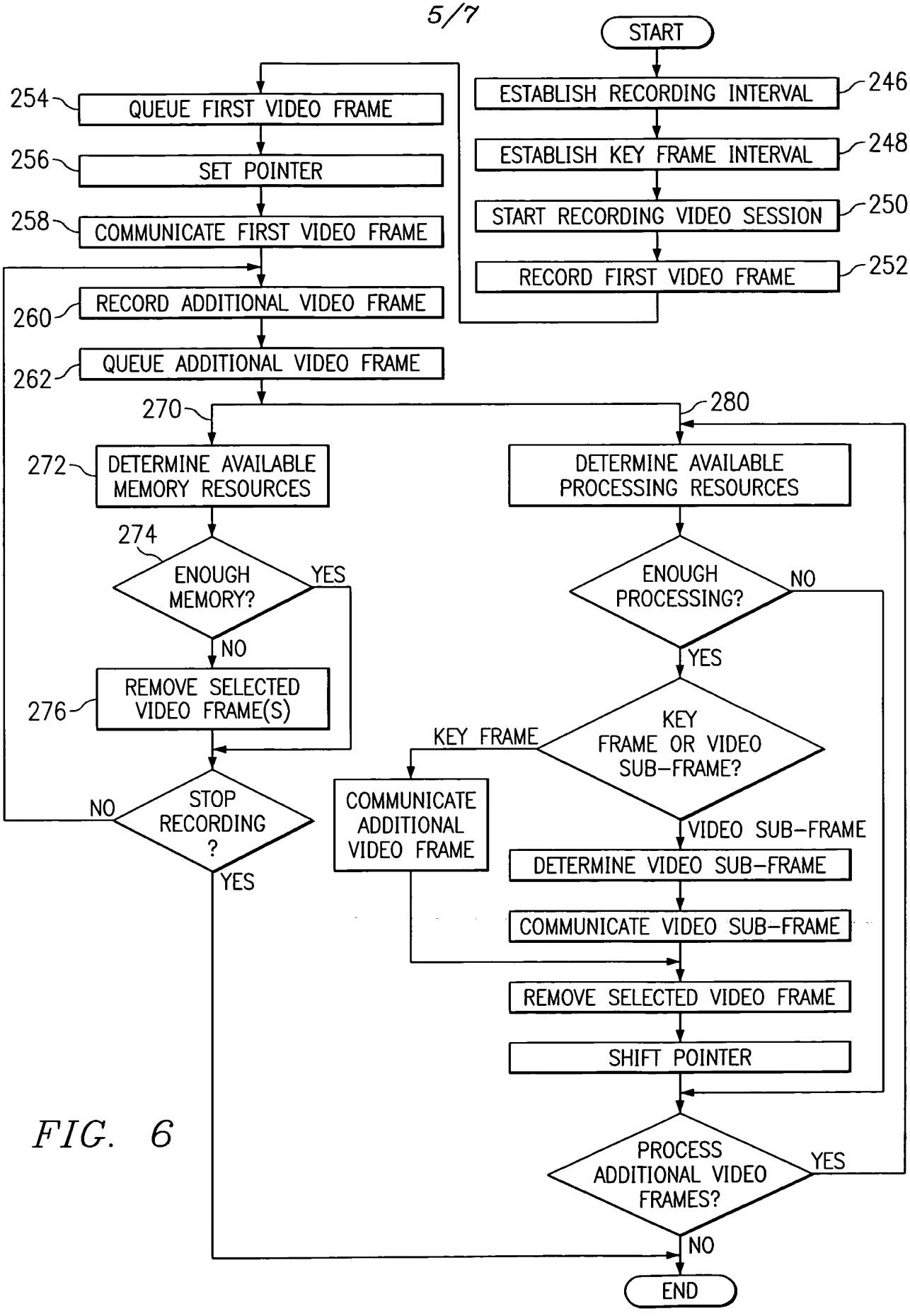

START
ESTABLISH RECORDING INTERVAL
246
ESTABLISH KEY FRAME INTERVAL
248
START RECORDING VIDEO SESSION
250
RECORD FIRST VIDEO FRAME
252
254
QUEUE FIRST VIDEO FRAME
256
SET POINTER
258
COMMUNICATE FIRST VIDEO FRAME
260
RECORD ADDITIONAL VIDEO FRAME
262
QUEUE ADDITIONAL VIDEO FRAME
270
280
272
DETERMINE AVAILABLE MEMORY RESOURCES
DETERMINE AVAILABLE PROCESSING RESOURCES
274
ENOUGH MEMORY?
YES
NO
ENOUGH PROCESSING?
NO
YES
276
REMOVE SELECTED VIDEO FRAME(S)
KEY FRAME
KEY FRAME OR VIDEO SUB-FRAME?
NO
STOP RECORDING ?
YES
COMMUNICATE ADDITIONAL VIDEO FRAME
VIDEO SUB-FRAME
DETERMINE VIDEO SUB-FRAME
COMMUNICATE VIDEO SUB-FRAME
REMOVE SELECTED VIDEO FRAME
SHIFT POINTER
PROCESS ADDITIONAL VIDEO FRAMES?
YES
NO
END

FIG. 6

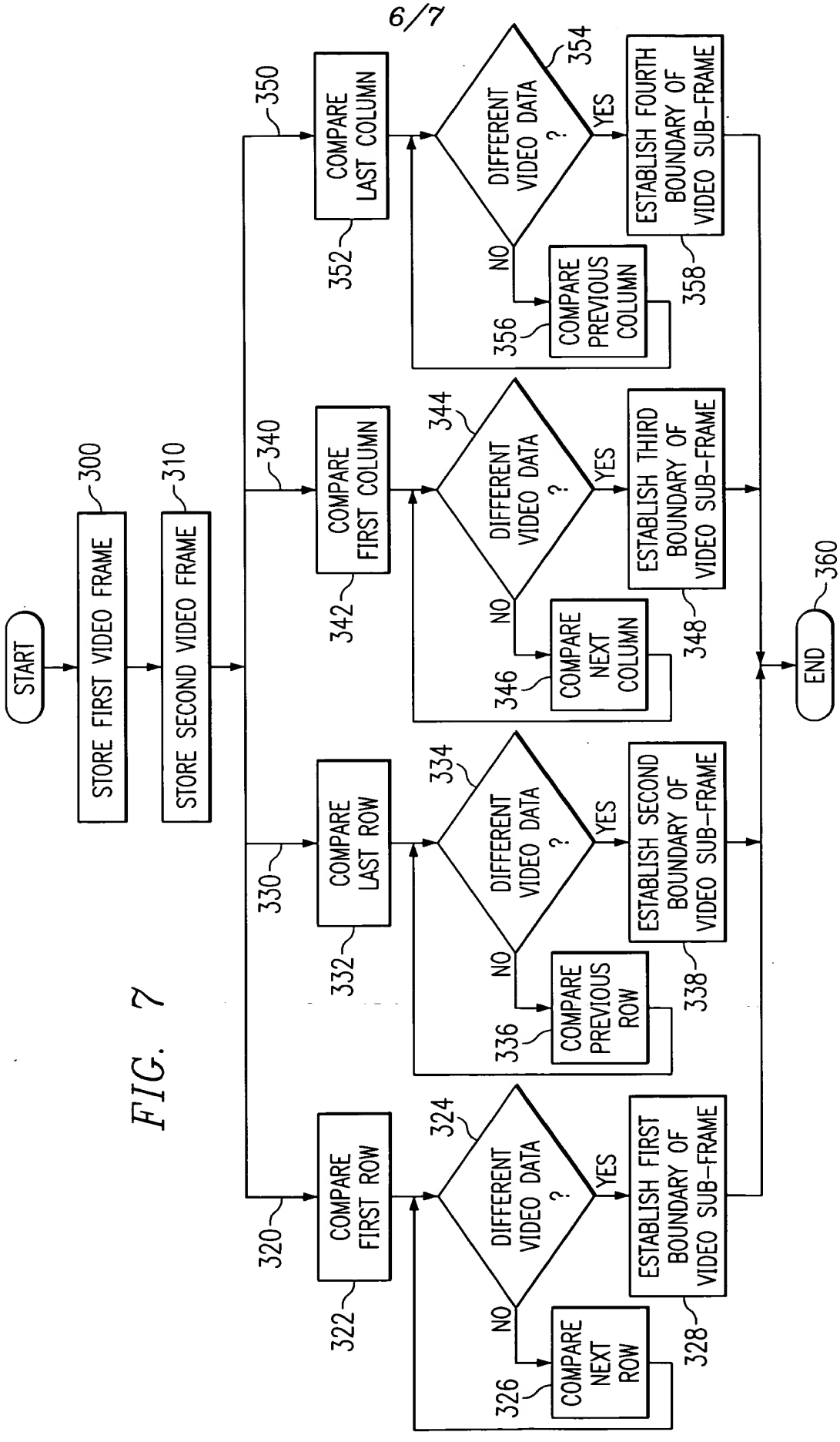
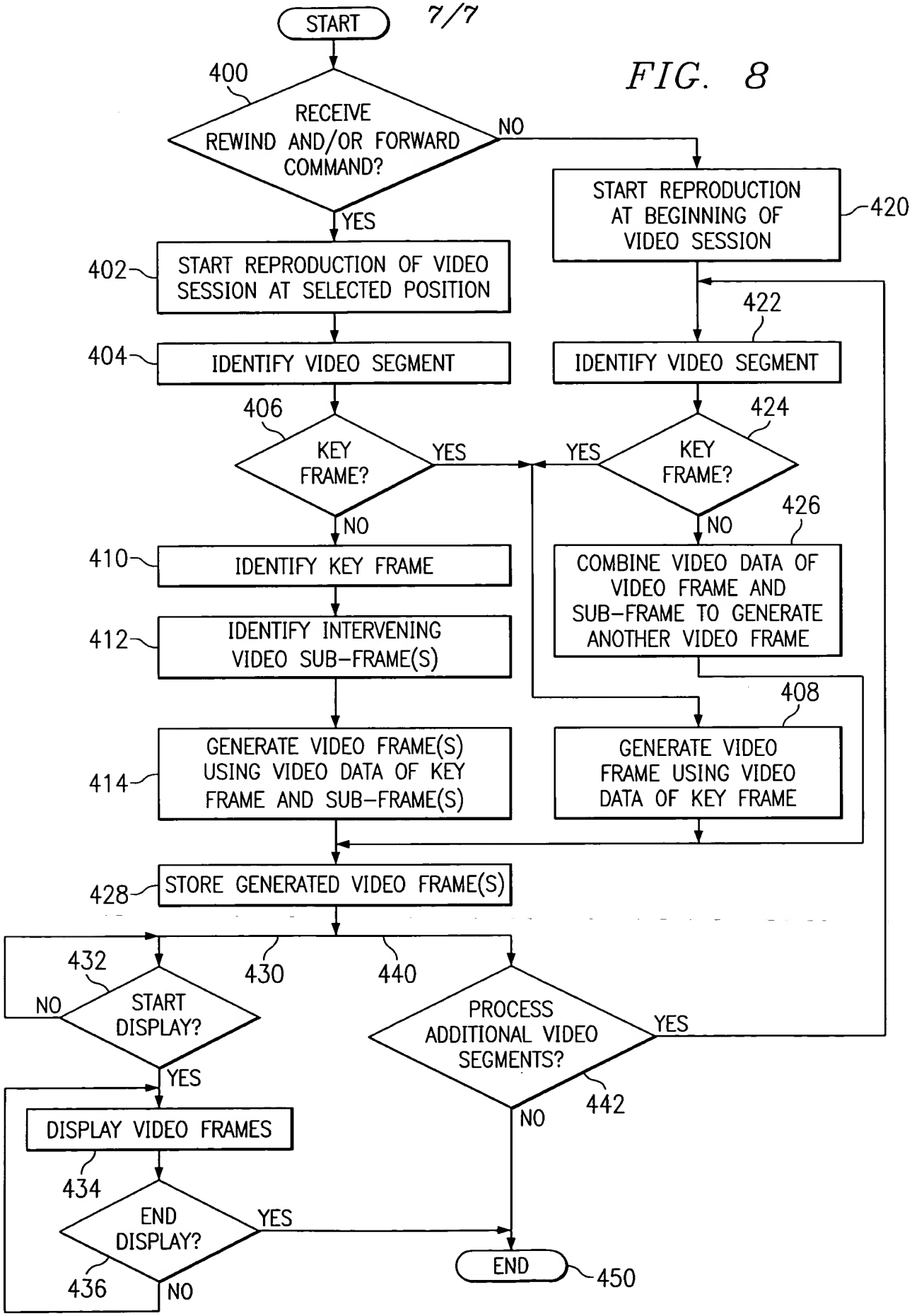

START
STORE FIRST VIDEO FRAME
300
STORE SECOND VIDEO FRAME
310
COMPARE FIRST ROW
320
322
DIFFERENT VIDEO DATA ?
324
YES
ESTABLISH FIRST BOUNDARY OF VIDEO SUB-FRAME
328
NO
COMPARE NEXT ROW
326
COMPARE LAST ROW
330
332
DIFFERENT VIDEO DATA ?
334
YES
ESTABLISH SECOND BOUNDARY OF VIDEO SUB-FRAME
338
NO
COMPARE PREVIOUS ROW
336
COMPARE FIRST COLUMN
340
342
DIFFERENT VIDEO DATA ?
344
YES
ESTABLISH THIRD BOUNDARY OF VIDEO SUB-FRAME
348
NO
COMPARE NEXT COLUMN
346
COMPARE LAST COLUMN
350
352
DIFFERENT VIDEO DATA ?
354
YES
ESTABLISH FOURTH BOUNDARY OF VIDEO SUB-FRAME
358
NO
COMPARE PREVIOUS COLUMN
356
END
360

FIG. 7

7/7

FIG. 8


START
400
RECEIVE REWIND AND/OR FORWARD COMMAND?
NO
YES
START REPRODUCTION AT BEGINNING OF VIDEO SESSION
420
402
START REPRODUCTION OF VIDEO SESSION AT SELECTED POSITION
422
404
IDENTIFY VIDEO SEGMENT
IDENTIFY VIDEO SEGMENT
406
KEY FRAME?
YES
YES
424
KEY FRAME?
NO
NO
426
410
IDENTIFY KEY FRAME
COMBINE VIDEO DATA OF VIDEO FRAME AND SUB-FRAME TO GENERATE ANOTHER VIDEO FRAME
412
IDENTIFY INTERVENING VIDEO SUB-FRAME(S)
408
414
GENERATE VIDEO FRAME(S) USING VIDEO DATA OF KEY FRAME AND SUB-FRAME(S)
GENERATE VIDEO FRAME USING VIDEO DATA OF KEY FRAME
428
STORE GENERATED VIDEO FRAME(S)
432
430
440
NO
START DISPLAY?
PROCESS ADDITIONAL VIDEO SEGMENTS?
YES
YES
442
NO
DISPLAY VIDEO FRAMES
434
END DISPLAY?
YES
END
450
436
NO